

Shifting Gear: Design, Innovation and the Australian Car

THE IAN POTTER CENTRE: NGV AUSTRALIA
6 MAR – 12 JUL 2015



Shifting Gear: Design, Innovation and the Australian Car will survey our rich automotive history with a focus on Australian design and innovation. It will present 23 vehicles including muscle cars, racing cars, performance vehicles and concept cars. The exhibition will examine the design process and will feature some of the designers who have styled our iconic vehicles.

Through an interactive design studio *Shifting Gear* will bring to life the process involved in automotive design and will highlight the stages through which car design passes from concept to finished vehicle. The exhibition will demonstrate the significant contribution Australian designers have made, and continue to make, to the global car industry through design capacity and specialist knowledge.

GM HOLDEN LTD, Melbourne
(manufacturer)
HQ Holden Monaro GTS, coupe 1971–74
(manufactured)
designed by Leo Pruneau, Joe Schemansky,
John Schinella and Phillip Zmood
Private collection

Student programs

Introductory tour

Recommended for Years K–12

Investigate, discuss and view iconic designs from key Australian automotive designers. Explore the many facets of the car design process including insights into design studio environments, original images and concepts. This talk explores the innovative use of materials and cutting edge technology used by designers.

Cost \$10

Beep Beep.... Broom Broom!

Recommended for Years K–2

Learn through making and doing! Students design and construct their own ride-in box racing car using up-cycled materials and take their vehicles for a test drive adventure.

Cost \$19 (2hrs)

Ready, set – car design

Recommended for Years 5–10

Design and make your own fold-up paper car model inspired by the innovative automobiles in *Shifting Gear*. This workshop will explore the characteristics of different car designs and use model making as a vehicle for generating and communicating creative ideas.

Cost \$19 (2hrs)

Design and Art day

Tue 28 Apr, 10am–4pm

Recommended for VCE, VCD, PDT, Art and Studio Arts students

Explore skills and knowledge with design and art practitioners in a day of design and art. This program includes viewing of *StArt Up: Top Arts 2015*, *Shifting Gear* and the *Top Design 2015* exhibition at the Melbourne Museum. Learn how designers and artists incorporate design thinking into their practice. Explore issues of sustainability in design and art, the roles and responsibilities of designers and how to work through the design process.

Cost \$19 + Museum fees

NGV Schools

Shifting Gear with RMIT Design departments

1 Jun – 12 Jun, 10.30am–3pm

Recommended for Years 10–12 VCD and PDT students

Enjoy a day of hands-on design. This program includes one selected workshop option with the RMIT Engineering and Industrial Design departments as well as an introductory talk and tour of *Shifting Gear* and a practical design workshop at the NGV.

Cost \$19 (Max. 25 students)

NGV workshop – Racing renders

Recommended for Years 10–12

Rendering techniques are a powerful means of visualising design ideas. This workshop allows students to experiment with a range of rendering techniques and materials inspired by the classic vehicles in *Shifting Gear*.

Cost \$19 (Max. 25 students)

RMIT Workshops

Option 1

After Auto Mobility – Design a sustainable transportation vehicle for a post car world

Vehicles exist not as singular entities, but are part of a complex system of various infrastructures that enable their safe and effective operation. As their effectiveness reduces through exacerbated use and individual ideals, so does their value. With the automobile firmly embedded within Australian culture, what changes could be implemented for future mobility when independent ownership becomes an increasingly unsustainable practice? Where within this broad field can a substitute practice be established that delivers similar expectations yet considers our environmental and economic imperative?

Option 2

Automotive Engineering – Crash Testing for Dummies and Crashworthy Vehicle Design

In this crashworthy vehicle design activity you will explore the ideas used to design cars that better protect drivers and passengers. In a small group you will design and construct a 'crumple zone' to be attached to the front of a miniature test car, with the aim of minimising the peak acceleration reached during a frontal crash. You will then test your design by propelling the car into a mini 'crash barrier'. You will use a computer to record the peak de-acceleration of your vehicle and compare this value with those used by a professional.

Shift gears with a Virtual Excursion

All levels

Experience the *Shifting Gear* exhibition through an interactive video conference presentation introducing iconic designs from key Australian automotive designers. This program will highlight different facets of the car design process and offer an insight into design studio environments.

Cost \$110 (45 mins)

Ready, set – car design in your classroom

Recommended for Years 5–10

Follow your video conferencing experience with a Ready, set – car design workshop. Design and make your own fold-up paper car model inspired by the innovative automobiles in *Shifting Gear*. This workshop will explore and examine the characteristics of different car designs and use model making as a vehicle for generating and communicating creative ideas.

Cost Fees apply

Self guided exhibition entry – Pre-book and save!

Pre-book your school group to gain free entry for one teacher per 15 students and avoid the ticket queue. Arrival on the day without a booking will require purchase of tickets at regular prices at the ticket desk for each attendant.

Cost \$7

Professional Learning

Car design – yesterday, today and tomorrow

Sun 31 May, 10am–3pm

Recommended for VCD and PDT Teachers

Investigate, discuss and view iconic designs from key Australian automotive designers in *Shifting Gear*. Explore different facets of the car design process and gain an insight into design studio environments, original images and concepts with exhibition co-curator, Professor Harriet Edquist, Director RMIT Design Archives. This Professional Learning program will also include a viewing of classic Porsche cars courtesy of the Australian TYP 901 Register Inc, in Federation Square and an opportunity to discuss production issues with owners of these vehicles. Morning Tea and Lunch included.

Cost \$130

Bookings and enquiries

03 8620 2340, 12–5pm weekdays

edu.bookings@ngv.vic.gov.au

ngv.vic.gov.au/explore/education/programs/make-a-booking/

